

Notice of Allowability

Application No.

10/807,841

Examiner

John H. Le

Applicant(s)

SCHWEIKERT ET AL.

Art Unit

2863

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 03/24/2005.
2. ☒ The allowed claim(s) is/are 10-13.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 01/24/2005
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The applicant has been amended as follows:

In the specification under the title:

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a Divisional Application of co-pending Patent Application No. 10/338,513 filed January 8, 2003 now U.S. Patent No. 6,799,132.

Reasons for Allowance

2. Claims 10-13 are allowed.
3. The following is an examiner's statement of reasons for allowance:

Regarding claim 10, in combination with other limitations of the claims, none of the prior art of record teaches or suggests the apparatus used to control a wheel slip control magnet valve, said apparatus comprising: a hold timing means connected to said pulse timing means for determining if a remaining hold time is equal to 0, and enabling a timer's reset means if said remaining hold time is equal to 0, and enabling a hold timer decrement means if said remaining hold time is greater than 0, said pulse timer decrement means and said hold timer decrement means for decrementing one of said remaining pulse time and said remaining hold time, respectively, and for enabling a valve control means, said timer's reset means for resetting said pulse timing means and

said hold timing means. It is these limitations as they are claimed in the combination, which have not been found, taught or suggested in the prior art of record, that make these claims allowable over the prior art.

U.S. Patent No. 4,748,564 discloses an anti-skid brake control system omits certain control steps, which are normally executed periodically in order to achieve rapid fluid pressure build-up in the wheel cylinders. The system also allows holding of the braking pressure at a high constant level at the initial stage of braking pressure to ensure optimal braking characteristics on slippery road surfaces. Upon initiation of a brake pressure APPLICATION mode, a HOLD mode is enabled for a given period following which the HOLD mode is disabled. '564 fails to specify a hold timing means connected to said pulse timing means for determining if a remaining hold time is equal to 0, and enabling a timer's reset means if said remaining hold time is equal to 0, and enabling a hold timer decrement means if said remaining hold time is greater than 0, said pulse timer decrement means and said hold timer decrement means for decrementing one of said remaining pulse time and said remaining hold time, respectively, and for enabling a valve control means, said timer's reset means for resetting said pulse timing means and said hold timing means as now recited in claim 10 of the present invention.

U.S. Patent No. 5,281,009 discloses an antilock brake controller provides an adaptive pressure hold period that interrupts the release of brake pressure during the pressure release phase of an antilock braking pressure control cycle of a vehicle wheel by holding the brake pressure constant while the wheel slip rate is below a threshold

that is adjusted as a predetermined function of wheel slip for the front wheels and as a predetermined function of wheel acceleration for the rear wheels. '009 fails to specify a hold timing means connected to said pulse timing means for determining if a remaining hold time is equal to 0, and enabling a timer's reset means if said remaining hold time is equal to 0, and enabling a hold timer decrement means if said remaining hold time is greater than 0, said pulse timer decrement means and said hold timer decrement means for decrementing one of said remaining pulse time and said remaining hold time, respectively, and for enabling a valve control means, said timer's reset means for resetting said pulse timing means and said hold timing means as now recited in claim 10 of the present invention.

U.S. Patent No. 5,505,100 discloses the hydraulic circuit of the transmission may include a positive displacement pump that supplies pressurized hydraulic fluid to the clutches through the control valves. The OCSC Pulse Time, Hold Level, and Hold time are each multiplied by its respective compensation factor to produce the final value for the shift. '100 fails to specify a hold timing means connected to said pulse timing means for determining if a remaining hold time is equal to 0, and enabling a timer's reset means if said remaining hold time is equal to 0, and enabling a hold timer decrement means if said remaining hold time is greater than 0, said pulse timer decrement means and said hold timer decrement means for decrementing one of said remaining pulse time and said remaining hold time, respectively, and for enabling a valve control means, said timer's reset means for resetting said pulse timing means and said hold timing means as now recited in claim 10 of the present invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

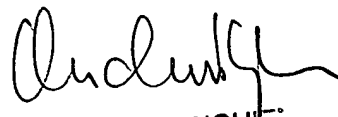
Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John H. Le whose telephone number is 571 272 2275. The examiner can normally be reached on 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow can be reached on 571 272 2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John H. Le
Patent Examiner-Group 2863
August 19, 2006


MICHAEL NGH
PRIMARY EXAMINER